AMENDMENTS TO THE SPECIFICATION

At page 4, line 35, please insert the following Brief Description of the Drawings.

BRIEF DESCRIPTION OF DRAWINGS:

Referring now to the figures, which are exemplary embodiments, and wherein the like elements are numbered alike:

Figure 1 illustrates a flow cell in preferred embodiments. Figures 1a, 1b, and 1c are preferred embodiments of the flow cell in side view, and Figure 1d is a plan view of the flow cells illustrated in Figures 1a, 1b, and 1c.

Figure 2 illustrates deformation of a fluid element with dimensions a, b, and c in one embodiment of the flow cell.

Figure 3 illustrates the arrangement of the optical unit and sample analysis unit in relation to each other.

Figure 4 illustrates optics with illumination at one angle and measurement at a plurality of reflectance angles.

Figure 5 illustrates the light beam path with illumination at one angle and measurement at a plurality of reflectance angles.

Figure 6 illustrates optics with illumination at a plurality of illumination angles.

Figure 7 is a side view of the reflectance sensor with three-dimensional flow cell for measuring liquid samples containing non-isometric particles.

Figure 8 illustrates an example of a reflectance sensor for measuring solid samples (sheet-metal cell).

Figure 9 illustrates an example of a reflectance sensor for measuring a calibration standard (reference cell).

Figure 10 illustrates a preferred embodiment of an attenuator. Figure 10a is a plan view and Figure 10b is a side view of the attenuator.

Figure 11 illustrates a system preferably used for reflectance measurement. Figure 11a is a side view and Figure 11b is a front view.

Figure 12 illustrates a general measurement structure of a highly accurate flow oriented multi angle reflectance sensor (FLOMAC).

Figure 13 illustrates optics with illumination at one angle and measurement at a plurality of angles (FLOMAC dome).

Please replace page 5, line 36 to page 6, line 4 with the following.

Figure 1 illustrates a flow cell in preferred embodiments. ~~(Figs 1a, 1b, 1c, 1d), and Figure 2 illustrates the deformation of a fluid element with dimensions a, b, c.~~

~~Figure 1: Preferred embodiments of the flow cell~~ Figures 1a, 1b, 1c~~:~~ are preferred embodiments of the flow cell in side view[[;]] and Figure 1d~~:~~ is a plan view of the flow cells illustrated in [[f]]Figures 1a, 1b, 1c (identical for all three embodiments).

~~Here~~With reference to Figure 1:

Please replace page 6, ll. 21-23 with the following:

Figure 2~~:~~ illustrates the ~~D~~deformation of a fluid element with dimensions a, b, c in one embodiment of the flow cell of the invention.

~~Here~~With reference to Figure 2:

Please replace page 12, lines 21-25 with the following.

An example of a reflectance sensor is illustrated in [[f]]Figure 3[[.]]. ~~Figure 3: which~~ depicts the ~~A~~arrangement of optical unit and sample analysis unit in relation to each other.

~~Here~~With reference to Figure 3:

Please replace page 21, line 33 to page 22, line 1 with the following.

One example of such optics is illustrated in [[f]]Figure 4[[.]]. ~~An example of the associated beam path is illustrated in figure 5. Figure 4:~~ which shows the ~~Optics with~~ illumination at one angle and measurement at a plurality of reflectance angles.

~~Here~~With reference to Figure 4:

Please replace page 22, lines 18-21 with the following.

An example of the associated beam path is illustrated in Figure 5, ~~Figure 5: which depicts Beam path with~~ illumination at one angle and measurement at a plurality of reflectance angles.

~~Here~~With reference to Figure 5:

Please replace page 23, lines 22-26 with the following.

One example of such optics is illustrated in [[f]]Figure 6[[.]], ~~Figure 6: which depicts Optics with~~ illumination at a plurality of illumination angles.

~~Here~~With reference to Figure 6:

Please replace the paragraph on page 28, lines 10-29 with the following paragraph.

Figure 7 illustrates a preferred embodiment of a reflectance sensor having a sample analysis unit (B) for the reflectance measurement of liquid samples containing non-isometric particles, comprising the measuring window (Ba) and the sample analysis cell with three-dimensional flow cell (Bb) and also a holder for the fiber optics (Ab) of the optical unit (A).

~~*Figure 7: Reflectance sensor with three-dimensional flow cell for measuring liquid samples containing non-isometric particles*~~

~~Here~~With reference to Figure 7:

101 is the baseplate (mounting plate)
102 is the holder for the measuring window
103 is the measuring window
104 is the opening for the fiber system
105 is the drip edge
106 is the basic product cell body
107 is the product outlet
108 is the product feed with specific three-dimensional form for the alignment
109 is the shearing gap

Please replace the paragraphs on page 30, line 10 to page 31, line 4 with the following paragraph.

Figure 8 illustrates an example of a reflectance sensor for measuring solid samples (sheet-metal cell), ~~and figure 9 illustrates an example of a reflectance sensor for measuring a calibration standard (reference cell).~~

~~*Figure 8: Reflectance sensor for measuring solid samples*~~

~~Here~~With reference to Figure 8:

201 is the baseplate (mounting plate)
202 is the holder for the measuring window
203 is the measuring window
204 is the opening for the fiber system
205 is the drip edge
206 is a spacer
207 is a solid sample
208 is a spring element
209 is a pressure element
210 is guide rods

Figure 9 illustrates an example of a reflectance sensor for measuring a calibration standard (reference cell).

~~*Figure 9: Reflectance sensor for measuring a calibration standard*~~

~~Here~~With reference to Figure 9:

301 is the baseplate (mounting plate)
302 is the holder for the measuring window
303 is the measuring window
304 is the opening for the fiber system
305 is the drip edge

306 is the basic reference cell body

307 is a spacer

308 is the reference standard

309 is a variable pressure system

Please replace the paragraphs on page 32, line 18 to page 33, line 27 with the following paragraph.

A particularly preferred embodiment of an attenuator is illustrated in [[f]]Figures 10a and 10b. Figure 10a is a plan view and Figure 10b is a side view of the attenuator.

~~*Figure 10: Preferred embodiment of an attenuator*~~

~~Figure 10a (plan view) and 10b (side view)~~

~~Here~~With reference to Figures 10a and 10b:

401 is an SMA socket for the receiver

402 is the basic body

403 is a diffuser (optional)

404 is a neutral filter (optional)

405 is a conversion filter (optional)

406 is an SMA socket for the transmitter

407 is a clamping device

408 is a piston

409 is guided rods (optional)

410 is a carriage (optional)

411 is a drive rod (optional)

412 is a motor holder (optional)

413 is a motor

A system preferably used for reflectance measurement is illustrated in [[f]]Figure 11.

Figure 11a is a side view and Figure 11b is a front view.

~~*Figure 11: System preferably used for reflectance measurement*~~

~~Figure 11a (side view) and 11b (front view)~~

~~Here~~With reference to Figures 11a nd 11b:

501 is a light source

502 is a spectrometer with optical attenuator (number: 1 - maximum 8) and amplifier

503 is a cooler

504 is a PC with AD (analog/digital) converter

505 is a pump

506 is the flow cell

507 is the measuring window

508 is a fiber holder

509 is fibers, preferably glass fibers (the number of fibers can be higher than illustrated in the figure)

510 represents pressure measurement

511 is a receiving container

512 is a stirrer, for example magnetic stirrer

513 is the mobile housing

514 is cooling water

Please replace the paragraphs on page 34, lines 1-34 with the following paragraph.

The general measurement structure of a highly accurate flow oriented multi angle reflectance sensor is illustrated in [[f]]Figure 12, and the optics with illumination at one angle and measurement at a plurality of angles in the form of what is known as a "FLOMAC dome" is illustrated in [[f]]Figure 13. ~~In this case, Flomacs means a~~ FLOMAC stands for "flow oriented multi angle 5 color sensor".

~~*Figure 12: General measurement structure of a highly accurate flow oriented multi angle reflectance sensor (FLOMAC)*~~

~~Here~~With reference to Figure 12:

601 represents pressure monitoring

602 is a spectrometer

603 is the FLOMAC dome

604 is a FLOMAC cell

605 is a stirrer

606 is a receiver

607 is a pump

~~*Figure 13: Optics with illumination at one angle and measurement at a plurality of angles: "FLOMAC dome"*~~

~~Here~~With reference to Figure 13:

701 is a receiver at -15°

702 is a spectrometer

703 is a receiver at 15°

704 is a receiver at 25°

705 is a receiver at 45°

706 is a receiver at 75°

707 is illumination

708 is a receiver at 105°

709 is the FLOMAC dome

710 is a FLOMAC cell